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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/828,629	04/14/2004	Shih-Jong J. Lee	SV37	6319	
29738 SHIH-JONG	7590 04/01/201 I LEF	EXAMINER			
15418 SE 53R	D PLACE	MOTSINGER, SEAN T			
BELLEVUE,	WA 98006		ART UNIT	PAPER NUMBER	
			2624		
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			04/01/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/828,629	LEE ET AL.				
Examiner	Art Unit				
SEAN MOTSINGER	2624				

		SEAN MOTSINGER	2624				
	The MAILING DATE of this communication app	ears on the cover sheet with the o	orrespondence ad	dress			
Period fo	or Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLA- CHEVER IS LONGER, FROM THE MAILING D/ naisons of time may be available under the provisions of 37 CFR 1.1: SIX (6) MCNTHS from the making date of this communication. A communication of the communication o	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on <u>05 June 2009</u> .						
2a)□	This action is FINAL. 2b)⊠ This action is non-final.						
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merit						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)□	Claim(s) 1-31 is/are pending in the application.						
	4a) Of the above claim(s) <u>19-31</u> is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)	Claim(s) 1-18 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	ion Papers						
9)□	The specification is objected to by the Examine	r.					
	The drawing(s) filed on is/are: a) acce		Examiner.				
.4,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex		•				
Priority (under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:	. ,					
,	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applicati	on No				
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National	Stage			
	application from the International Bureau	ı (PCT Rule 17.2(a)).					
* 8	See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachmen	nt(s)						

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(c) (FTO/SB/00) Paper No(s)/Mail Date

- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. ___
- 5) Notice of Informal Patent Application
- 6) Other: _

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Response to Applicants Arguments/Amendments

Applicants arguments/amendments filed on 12/22/2009 have been entered and are considered below.

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Rejections Under 35 U.S.C. 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims1-18 are rejected under 35 U.S.C. 101 because the process is not tied to another statutory category. A process claim, to be statutory under § 101, must pass the machine-or-transformation test, which ensures that the process is limited to a particular practical application. Thus, not every claimed method qualifies as a statutory process. The test ensures that the process is not simply claiming an abstract idea, a mental process or substantially all practical uses of (preempting) a law of nature or a natural phenomenon. This process does perform any physical transformation because it is merely manipulating data; and furthermore it is not tied to a particular machine. The claim as it stands is not implicitly tied to a machine because of the steps of claim 1 for example could be performed entirely by a mental process. Mental processes are not

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statutory. To rectify this, the examiner suggest applicant amend the claim to limit the claim to require that the process be performed on a specific machine such as a computer processor with appropriate programming to perform the method. Note the use of the particular machine or transformation of the particular article must impose a meaningful limit on the claim's scope, therefore the examiner suggest tying at least step b or c to a particular machine.

Rejections Under 35 U.S.C. 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 2 recites "performing automation control of the relational feature development step and the relational feature analysis step using a recipe". This is still unclear what this means, the examiner suggests the language "wherein the relational feature development step and the relational feature analysis step are automated via a recipe"

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Rejections Under 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2, 4, 17 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Yaung et al US 6512850.

Re claim 1 Yang discloses A method for the detection and analysis of patterns comprises the steps of: a) Input an image containing object labels (object set column 6 lines 20-25); b) Perform relational feature development using the input image to create at least one pattern map output (Similarity matrix column 6 lines 25-35) wherein the pattern map consists of CxC object class relationships (MxM matrix column 6 lines 35-44 note that the full MXM matrix is not showin in figure 6 but the fully MXM matrix may be created computing all the redundant similarity values) across an image set, each row of the pattern map is a distribution of object classes (objects column 6 lines 20-25 note each object could be considered its own class) relations to C other classes including itself (column 6 lines 28-50 note the similarity values are calculate between the other objects and itself); c) Perform relational feature analysis (cluster table column

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6 lines 50-55) using the at least one pattern map to create a relational feature analysis result output (cluster table column 6 lines 50-55).

Re claim 2 Yang discloses further performing automation control of the relational feature development step and the relational feature analysis step using a recipe (software code column 4 lines 55-67).

Re claim 4 Yang discloses wherein the relational feature analysis method selects from the set consisting of: Pattern map viewing; pattern map operation (associated image object identifiers into clusters see figure 4 step 412).

Re claim 17 The relational feature analysis method of claim 4 wherein the Pattern Map Viewing selects from the set consisting of: a) Color coded map, b) Bar chart, c) Histogram, d) Image montage (note this feature is not required in the claim since only one of pattern map view and pattern map operation need to be performed since pattern map operation was already shown this feature need not be shown to meet the claim).

Re claim 18 The pattern detection and analysis method of claim 2 wherein the recipe for automation control is selected from the set consisting of: a) Image loading

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recipe, b) Feature table production recipe, c) Pattern Map creation recipe (code for similarity matrix generator column 4 lines 55-67), d) PatternMap update and integration recipe, e) PatternMap operations recipe, f) Output recipe.

Allowable Subject Matter

Claims 3, 5-16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. The prior art does non include the combination of the following "wherein the relational feature development method further comprises the steps of: a) Perform core measurement table development using the input image to create at least one core measurement table output; b) Perform feature table production using the at least one core measurement table to create at least one feature table output; c) Perform PatternMap creation using the at least one feature table to create a PatternMap output." Therefore claim 5 and its dependents contain allowable subject matter. Claim 3 contains allowable subject matter because the prior art of record does not discloses using a pattern map as described in claims 1 to detect a genetic anomoly.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN MOTSINGER whose telephone number is (571)270-1237. The examiner can normally be reached on 9-5 M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Motsinger 3/27/2010

/Brian P. Werner/ Primary Examiner, Art Unit 2624